

BOSCH - WORKSHOP DOCUMENTS: DIESEL INJECTION  
Instructions on the use of the search index W-400/000

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As from 04.89, the index has been rearranged.  
The new search groups, together with details of coordinate, are to be found on N28 in the following order:

1. EP workshop equipment
2. EP general
3. In-line pumps
4. Governors
5. Distributor pumps
6. Fuel-supply pumps
7. Nozzles/nozzle holders
8. Single-plunger pumps
9. Timing devices
10. Kugelfischer / Sigma
11. EP gasoline

Within these groups, we have further sub-divided as follows:

- General
- Description
- Repair
- Testing

**E x a m p l e :**

Distributor-pump search group.

Within this group, under:

- General      You will find general information which has nothing to do with repairing or testing the EP.
- Description      This area contains information dealing with the design and operation of the EP as well as its add-on modules. Information on new products. No repair or test instructions.
- Repair      Contains all instructions or technical information which is necessary for repair and which must be taken into account.
- Testing      Here are to be found all instructions or technical information which must be taken into account when testing the EP. In addition, test specifications are included which have not yet been incorporated into the WP.

**N o t e :**

If technical information contains notes on repair and testing, it is listed twice. That is to say once under repair and once under testing. This enables technical information to be found quickly.

In line N01 there is a list of documents with old designation (e.g. VDT-I-400/106) in alpha-numeric order together with microfiche/coordinate.

Basic instructions are marked with an \* sign.

Instructions and information only available in German are marked with #.

Abbreviation NP = Manufactured at ZEXEL.

ROBERT BOSCH GMBH Automotive Equipment Aftermarket Division  
Department: Service Training, Technical Documentation, Wernau

EP WORKSHOP EQUIPMENT

Type designation	Microfiche title	Microfiche	Pos
GENERAL			
	- Modification to measuring tool for timing device travel 1 688 130 139 for DI pumps	W-400/016	F17
	- Drive couplings, clamping elements etc.	W-400/007	J25
	- Clamping support, prestroke measuring device modification	W-400/008	A08
	- Hours-run meter, retrofit	W-400/003	K05
	- Flange modification for Ford-VE	W-400/016	A01
	- New test-pressure lines 1 680 750 089 for in-line pumps	W-400/040	B16
	- Pressure gauge and adjuster for LDA	# W-400/003	A07
	- Sealing tool-KDEP 1619	W-400/016	E15
	- Test equipment, test conditions	W-400/002	A01
	- Calib. nozzle-holder assembly with perforated plates	W-400/003	J27
	- Calibrating oil as per ISO 4113	W-400/016	J26
	- Conversion kit for reducing aerosol vapor mixture on IP test benches	W-400/051	L06
	- Locking device between clamping flange and clamping bracket	W-400/051	B22
	- Prestroke measuring device for M-pump modification	# W-400/006	A01
	- Protractor, governor adjustment	W-400/016	G18
0 986 612 694	- Holding tool on Scania-P and H-fuel-injection pumps.	W-400/055	H03
EFEP. .375.	- Conversion to large flywheel	W-400/003	K02
KDEP. .1598	- Modification to end-cover insertion tool	W-400/040	H21
KDEP. .1634	- Adjustment tool for RQ(V) governors with split spring seat	W-400/040	B23
KDEP. .2924	- Modification to gauge KDEP 2924 for P-pumps	W-400/040	B18
VE . .F .	- New reduc. sleeve, testing with KDEP 1140	W-400/003	H04
VE . .F .	- Danger of accident with timing-device measuring unit	W-400/008	A04

TESTING

PE . . . P .8500	- Demands on P-8500 test equipment	W-400/051	B14
0 986 610 102	- ISO calibrating oil, viscosity test	W-400/002	A02
1 688 130 227	- Universal test lead for EDC in-line pumps	W-400/058	C10
	- New timing device travel measuring instrument for heavy-duty EDC-EP	W-400/058	C03

## EP-GENERAL

Type designation	Microfiche title	Microfiche	Pos
GENERAL	- Abbrev. for technical terms and components	W-400/016	B18
	- ALTERATION TO BOSCH PART NUMBERS	W-400/058	A11
	- Work units, add-on modules	W-400/008	E10
	- Clamping support, prestroke measuring device, modification	W-400/008	A08
	- Diesel fuel with low sulphur content	W-400/051	M02
	- Explanation of new EP variant system	W-400/008	F01
	- Guarantee handling EP variance Cummins	W-400/016	K17
	- Health risks caused by viton	W-400/016	L03
	- Date of manufacture for Bosch products	W-400/016	F14
	- Foreign-language service documentation	W-400/016	G03
	- Storage information for Diesel fuel-injection pumps	W-400/016	K24
	- New date of manufacture	W-400/058	C27
	- Modified warranty procedure for delivery faults	W-400/058	E09
	- Sealing by engine manufacturer	W-400/005	F21
	- Test spec., angular specs. for governor	W-400/008	A28
	- Saab-Scania sealing regulations	W-400/004	G26
	- Lubricating regulations, lubricants, quantities	# W-400/003	A27
	- Rapid location of new Service Info on microcards.	W-400/040	G25
	- Service procedure for Kugelfischer and gasoline-EP	# W-400/003	B09
	- Ecological diesel fuel	W-400/055	C27
	- Workshop codes, marking punch	W-400/001	A01
NP-	- ZEXEL test specifications	W-400/040	B21
NP-	- Explanatory notes on part numbers for diesel fuel-injection systems	W-400/032	B01
NP-PE	- Modification to sealing of type PE fuel-injection pumps	W-400/032	A22

NP-VE	- Modification to sealing of type VE fuel-injection pumps	W-400/032	A15
<del>NP-VE</del>	<del>- Part numbers for type VE fuel-injection pumps</del>	<del>W-400/032</del>	<del>A01</del>

DESCRIPTION

<del>NP-VE</del>	<del>- Servo-adjustment for type VE fuel-injection pumps</del>	<del>W-400/032</del>	<del>A14</del>
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REPAIRS

	- Tightening torques for pumps and governors	W-400/002	A01
	- CARB seal with TORX-Plus bolt	W-400/058	C25
	<del>- Service-part identification, abbreviated number</del>	<del># W-400/003</del>	<del>A26</del>
NP-VE	- Modification to type VE fuel-injection pump for ISUZU engine 4IB1T	W-400/032	C01
NP-VE	- Regulating valve for type VE fuel-injection pumps	W-400/032	C02

TESTING

	<del>- Test specifications referenced to date of issue</del>	<del>W-400/058</del>	<del>A01</del>
	- CARB seal with TORX-Plus bolt	W-400/058	C25
	- Injection pump with governor in parallel operation	W-400/057	A01
	- Injection-pump assemblies on engines from Mack	W-400/016	G22
	- Test specifications - instructions		
	- Delivery measurement, instructions	W-400/016	A18
	- ISO calibrating oil, viscosity test	W-400/003	J21
	- Values in parentheses - usage	W-400/004	D23
	- Test equipment, test conditions	W-400/002	A01
	- Use of test record	W-400/003	J17
	- Test specifications - telephone info	W-400/003	J20
	- Test specifications - conversion to ISO calibrating oil	W-400/003	J19
	- Test specifications - angular specs. for governors	W-400/008	A28
	- Telephone enquiries regarding EP test specifications and conversion	W-400/040	D24

NP	- ZEXEL notes on service-parts lists and test-specification sheets	W-400/051	C06
NP-VE	- Charge-air-pressure compensator cover for VE pumps	W-400/032	A14

## IN-LINE PUMPS

Type designation	Microfiche title	Microfiche	Pos
GENERAL			
	- Tightening torques and assembly instructions for injection pumps for installation on engine	W-400/055	A27
	- EDC service procedure	W-400/008	E18
	- EDC in-line pumps with RE positioner	W-400/055	B17
	- Start-of-delivery settings (supplements)	W-400/051	C08
	- New test-specification sheet	W-400/051	J22
	- SIGMA fuel-injection pump service	W-400/016	N01
	- Distribution of IP test specifications	W-400/055	B25
	- Use of alternative fuels with fuel-injection components	W-400/051	K20
	- Use of Fleet Guard filters for Bosch-equipped Cummins engines	W-400/051	L24
PE . .CW .	- Test bench allocation, service instruc.	W-400/008	A14
PE . .P .	- Celeron drive coupling for Mack vehicles	W-400/040	B05
PE . .P .	- Scania power variant, quantity setting	W-400/035	A01
PE .6 .R .	- In-line pump of size R, new service procedure	W-400/051	D15
PE . .ZW .	- Test bench allocation, service instruc.	W-400/008	A14
PE . .ZWM .	- Test bench allocation, service instruc.	W-400/008	A14
PES . .P .	- Celeron drive coupling for Mack vehicles	W-400/040	B05
PES . .P .	- IP assemblies for Scania engines	W-400/051	M25
PES .6 .P .	- John Deere port-closing adjustment	W-400/040	H06
PESV. .P .	- MAN port-closing adjustment	W-400/004	L14
NP	- ZEXEL notes on service-parts lists and test-specification sheets	W-400/051	C06
DESCRIPTION			
PE . . .	- Control-rod travel sensor with evaluation unit	W-400/005	H03
PE . .H .	- Constant-vacuum valve (GDV), design and mode of operation	W-400/051	H28
PE . .H .	- New EDC system EDC 53.1 (MS 5)	W-400/051	G23

PE	.H	- Snubber valve (RDV), design and mode of operation	W-400/051	J27
PE	.MW	- Design, function	W-400/005	M16
PE	.P	- Electronically controlled diesel fuel injection (EDC), system description	W-400/016	E19
PE	.P	- Constant-vacuum valve (GDV), design and mode of operation	W-400/051	H28
PE	.P	- New plunger-and-barrel assembly	W-400/016	G26
PE	.P	- Control-rod support, service instructions	W-400/016	H15
PE	.P	- Snubber valve (RDV), design and mode of operation	W-400/051	J27
PE	.P	- Reinforced version S 7100, S 7800	W-400/005	M25
PES	.	- Control-rod travel sensor with evaluation unit	W-400/005	H03
PES	.H	- New EDC system EDC 53.1 (MS 5)	W-400/051	G13
PES	.MW	- Design, function	W-400/005	M16
PES	.P	- Electron. controlled diesel fuel injection (EDC), system description	W-400/016	E19
PES	.P	- New plunger-and-barrel assembly	W-400/016	G26
PES	.P	- Control-rod support, service instructions	W-400/016	H15
PES	.P	- Reinforced version S 7100, S7800	W-400/005	M25
PES	.R	- Constant-vacuum valve (GDV), design and mode of operation	W-400/051	H28
PES	.R	- Snubber valve (RDV), design and mode of operation	W-400/051	J27

#### REPAIRS

0 400 866 219		- Loose bolts at the bearing end plate	W-400/058	A14
0 402 996 002		- Scania - comm. veh. with EDC	W-400/055	D10
0 403 486 105		- Control-lever mount leaking	W-400/058	B23
0 403 486 106		- Control-lever mount leaking	W-400/058	B27
P . /10.		* Instructions	W-400/042	A01
P . /10.		- Loose delivery-valve holders	W-400/040	E06
PE . . .		- Asbestos-free flat seals	W-400/016	L18
PE . . .		- Leak test	W-400/004	E04



PE	.	.	- Service procedure for assembly - pump combinations	W-400/016	L12
PE	.	.A	* Instructions	W-410/101	A01
PE	.	.H	- Modification to delivery valve	W-400/040	H17
PE	.	.H	* Instructions	W-400/052	A01
PE	.	.H	- with EDC positioner RE ...	W-400/051	M17
			- Replacement of pump housing		
PE	.	.H	- Complaints about constant-pressure valves (GDV)	W-400/058	D11
PE	.	.H	- Installation, testing and adjustment instructions	W-400/051	L26
PE	.	.H	- Check on projection of stay bolts at assembly unions	W-400/051	F06
PE	.	.H	- New control rod and modified installation sequence for RE positioner with "high oil level"	W-400/055	A01
PE	.	.H	- Cylindrical roller bearing, drive end	W-400/055	E14
PE	.	.M	- With RSF governor, modification to start-of-delivery sensor system	W-400/016	A07
PE	.	.MW	* Instructions	W-410/102	A01
PE	.	.MW .15..	- Notes on prestroke adjustment	W-400/040	F10
PE	.	.MW	- NAVISTAR applications	W-400/051	B17
			Overhead pistons		
PE	.	.MW	- Control-rod guide pin renewal	W-400/016	N14
PE	.	.MW	- Intermediate-bearing attachment	W-400/005	M23
PE	.8	.MW	- With pneumatic cut-out device, disconnected regulating sleeves.	W-400/016	K07
PE	.8	.MW	- Leaky floor cover seal	W-400/016	K03
PE	.	.P	- Modification to delivery valve	W-400/040	H17
PE	.	.P	* Instructions	W-410/100	A01
PE	.	.P	* Instructions S. 7100, S. 7800	W-410/103	A01
PE	.	.P	- Instructions for pumps with start-of-delivery blocking flange	W-400/039	A01
PE	.	.P	- Complaints about constant-pressure valves (GDV)	W-400/058	D11
PE	.	.P	- Barrel-and-valve assembly modification S. 6000, S. 7000	W-400/005	A05
PE	.	.P	- Barrel-and-valve assembly, installation	W-400/005	A02
PE	.	.P	- Threaded pin for plunger-and-barrel attachment, modification	W-400/008	C27
PE	.	.P	- Threaded bushing at control rod, modification	# W-400/006	J19
PE	.	.P	- Installation, testing and adjustment instructions	W-400/051	L26
PE	.	.P	- Contact problems with positioner connector	W-400/040	E23
PE	.	.P	- Contact problems in RE-positioner	W-400/040	G19

PE	.	.P	.	- Check on projection of stay bolts at assembly unions	W-400/051	F06
PE	.	.P	.	- Unstable idle on comm. veh. with EDC	W-400/040	G28
PE	.	.P	.	- MB delivery-valve holder, modification	W-400/004	E02
PE	.	.P	.	- MB loose bearing end plate, series .. S 3800	W-400/008	C25
PE	.	.P	.	- MB reinforced bearing cap .. S 3800	W-400/005	J19
PE	.	.P	.	- Scania torque-control pressure valve, calibration	W-400/004	H06
PE	.	.P	.	- New control rod and modified installation sequence for RE positioner with "high oil level"	W-400/055	A01
PE	.	.P	.	- P-pump and 2-stage LDA, IP and governor conversion for MB engines of series 400	W-400/051	H24
PE	.	.P	.	- Scania plunger-and-barrel assembly, camshaft modification	W-400/005	J17
PE	.	.P	.	- Snap ring for baffle-plate modification	W-400/008	A06
PE	.	.P	.	- Cylindrical roller bearing, drive end	W-400/055	E14
PE	.	.P	.7000	- Damaged high-pressure seals	W-400/016	D12
PE	.	.P	.7100	- Change in pressure valve bracket	W-400/016	K10
PE	.	.P	.7100	- Sealing cap for constant-pressure valve	W-400/016	L08
PE	.	.P	.7100	- Introduction of lobe-type roller tappet	W-400/055	F01
PE	.	.P	.7100	- Introduction of "hard seal" between delivery valve and assembly cylinder	W-400/051	F12
PE	.	.P	.RS3123	- Iveco, roller-tappet seizure	W-400/008	F13
PE	.	.P	.RS3192	- Iveco, roller-tappet seizure	W-400/008	F13
PE	.	.P	.RS3195	- Iveco, roller-tappet seizure	W-400/008	F13
PE	.	.P	.S7100	- Change in intermediate bearing	W-400/016	K13
PE	.	.P	.S7100	- New cylindrical roller bearing on governor end, assembly instructions	W-400/016	M23
PE	.	.P	.S7100	- Intermediate bearing attachment	W-400/016	C06
PE	.	.P	.S7800	- Change in intermediate bearing	W-400/016	K13
PE	.	.P	.S7800	- New cylindrical roller bearing on governor end, assembly instructions	W-400/016	M23
PE	.	.P	.S7800	- Intermediate bearing attachment	W-400/016	C06
PE	.	.P	.S8000	* Instructions	W-400/037	A01
PE	.	.P	.S8500	* Instructions	W-400/046	A01
PE	.	.P	.S8000	- Modification of assembly seal	W-400/051	B06
PE	.	.P	.S8500	- Modification of assembly seal	W-400/051	B06
PE	.	6.P	.	- Iveco, roller-tappet seizure	W-400/008	E05
PE	.	6.P	.	- Volvo engine-speed variations at idle	W-400/008	A16
PE	.	6.P	.	- Volvo GM, conversion to heavy-duty flyweights	W-400/051	A16

PE	. 8.P	.LS38	- Conversion of fuel-injection pump, supply of lubricating oil	W-400/016	E11
PE	. 8.P	.LS7002	- Scania, camshaft fracture	W-400/007	J17
PE	. .R	.	- Modification to delivery valve	W-400/040	H17
PE	. .R	.	- General repair instructions	W-400/051	D05
PE	. .R	.	* Instructions	W-400/050	A01
PE	. .R	.	- Complaints about constant-pressure valves (GDV)	W-400/058	D11
PE	. .R	.	- Check on projection of stay bolts at assembly unions	W-400/051	F06
PE	. .R	.	- New control rod and modified installation sequence for RE positioner with "high oil level"	W-400/055	A01
PE	. .R	.	- Cylindrical roller bearing, drive end	W-400/055	E14
PE	. .Z	.	* Instructions	W-400/005	F24
PE	. .Z	.	- Camshaft projection	W-400/004	E03
PE	. .ZW	.S 1	* Instructions	W-400/020	A01
PE	. .ZW	.S 1000	* Instructions	W-400/020	A01
PE	. .ZWM	.	* Instructions	W-400/005	K24
PE	. .ZWM	.	* Instructions ..S2000/3000	W-400/015	A01
PE	. .ZWM	.S 1	* Instructions	W-400/020	A01
PE	. .ZWM	.S 1000	* Instructions	W-400/020	A01
PES	.	.	- Asbestos-free flat-seals	W-400/016	L18
PES	.	.	- Leak test	W-400/004	E04
PES	.	.	- Service procedure for assembly - pump combinations	W-400/016	L12
PES	. .A	.	* Instructions	W-410/101	A01
PES	. .A	.	- Case/John Deere - roller test stand, modification	W-400/004	K05
PES	.-6:A	.	- Navistar, loose connection between control rod and governor	W-400/051	A10
PES	. .A	.2000	- Cracked delivery valves with Ford 6.6L	W-400/016	G20
PES	. .A	.RS2710	- MB cold-start problems with governor ..C1154L	W-400/008	E27
PES	. .H	.	- Modification to delivery valve	W-400/040	H17
PES	. .H	.	* Instructions	W-400/052	A01
PES	. .H	.	- Complaints about constant-pressure valves (GDV)	W-400/058	D11
PES	. .H	.	- Installation, testing and adjustment instructions	W-400/051	L26
PES	. .H	.	- Check on projection of stay bolts at assembly unions	W-400/051	F06
PES	. .H	.	- with EDC positioner RE ... Replacement of pump housing	W-400/051	M17
PES	. .H	.	- New control rod and modified installation sequence for RE positioner with "high oil level"	W-400/055	A01
PES	. .H	.	- Cylindrical roller bearing, drive end	W-400/055	E14
PES	. .M	.	* Instructions	W-410/104	A01
PES	. .M	.	- Introduction of spring-chamber closing covers made of diecast aluminum	W-400/040	E08
PES	. .M	.	- Encodable solenoid valve as anti-theft device for Mercedes Benz	W-400/051	G09

PES	.	.M	.	- Delivery valve modification on in-line pump M/RSF.	W-400/055	G06
PES	.	.M	.	- Bucking whilst driving with active surge damping (K-ARD)	W-400/051	B01
PES	.	.M	.	- Support clamp, control-sleeve modification	# W-400/006	J06
PES	.	.M	.	- With EDC positioner, Mercedes-Benz Engine sporadically cuts out	W-400/058	B03
PES	.	.M	.	- With EDC positioner, Mercedes-Benz Engine sporadically cuts out	W-400/058	D01
PES	.	.M	.	- New control-rod closure cap	W-400/016	A07
PES	.	.M	.181	- Modification to idle leaf spring	W-400/040	J01
PES	.	.M	.185	- Modification of idle leaf spring	W-400/058	A05
PES	.	.MW	.	* Instructions	W-410/102	A01
PES	.	.MW	.15..	- Notes on prestroke adjustment	W-400/040	F10
PES	.	.MW	.	- NAVISTAR applications	W-400/051	B17
				Overhead pistons		
PES	.	.MW	.	- Control-rod guide pin renewal	W-400/016	N14
PES	.	.MW	.	- Intermediate-bearing attachment	W-400/005	M23
PES	.6	.MW	.	- Timing device failures due to fracture at return-flow restriction	W-400/051	D13
PES	.8	.MW	.	- With pneumatic cut-out device, disconnected regulating sleeves.	W-400/016	K07
PES	.8	.MW	.	- Leaky floor cover seal	W-400/016	K03
PES	.4	.MW	.RS1012	- Fiat-Allis hunting at high idle	W-400/008	A13
PES	.	.P	.	- Modification to delivery valve	W-400/040	H17
PES	.	.P	.	* Instructions	W-410/100	A01
PES	.	.P	.	* Instructions S 7100, S 7800	W-410/103	A01
PES	.	.P	.	- Instructions for pumps with start-of-delivery blocking flange	W-400/039	A01
PES	.	.P	.	- Misfiring in part-load range	W-400/051	A03
PES	.	.P	.	- Complaints about constant-pressure valves (GDV)	W-400/058	D11
PES	.	.P	.	- Barrel-and-valve assembly, modification S 6000, S 7000	W-400/005	A05
PES	.	.P	.	- Barrel-and-valve assembly, installation	W-400/005	A02
PES	.	.P	.	- Threaded pin for pump-and-barrel attachment, modification	W-400/008	C27
PES	.	.P	.	- Threaded bushing on control rod, modification	W-400/005	A01
PES	.	.P	.	- Installation, testing and adjustment instructions	W-400/051	L26

PES	.	P	.	- Contact problems with positioner connector	W-400/040	E23
PES	.	P	.	- Check on projection of stay bolts at assembly unions	W-400/051	F06
PES	.	P	.	- New control rod and modified installation sequence for RE positioner with "high oil level"	W-400/055	A01
PES	.	P	.	- RVI screw-thread insert for overflow valve	W-400/007	J19
PES	.	P	.	- Snap ring for baffle-plate modification	W-400/008	A06
PES	.	P	.	- MAN vehicles, conversion in the case of rough engine running	W-400/040	C19
PES	.	P	.	- Cylindrical roller bearing, drive end	W-400/055	E14
PES	.	P	.7100	- Change in pressure valve bracket	W-400/016	K10
PES	.	P	.7100	- Fracture of camshaft at taper of drive gear	W-400/051	C21
PES	.	P	.7100	- Sealing cap for constant-pressure valve	W-400/016	L08
PES	.	P	.7100	- Introduction of lobe-type roller tappet	W-400/055	F01
PES	.	P	.7100	- Introduction of "hard seal" between delivery valve and assembly cylinder	W-400/051	F12
PES	.	P	.7100	- Roller tappet defect in assembly	W-400/040	H23
PES	.	P	.7100	- Drive-gear slip for Mack E7 engines	W-400/051	C23
PES	.	P	.S7100	- Change in intermediate bearing	W-400/016	K13
PES	.	P	.S7100	- New cylindrical roller bearing on governor end, assembly instructions	W-400/016	M23
PES	.	P	.S7800	- Change in intermediate bearing	W-400/016	K13
PES	.	P	.S7800	- New cylindrical roller bearing on governor end, assembly instructions	W-400/016	M23
PES	.	P	.S8000	* Instructions	W-400/037	A01
PES	.	P	.S8500	* Instructions	W-400/046	A01
PES	.	P	.S8000	- Modification of assembly seal	W-400/051	B06
PES	.	P	.S8500	- Modification of assembly seal	W-400/051	B06
PES	.	6.P	.RS3145	- Assembly and installation instructions FORD 6.6L TC	W-400/016	C18
PES	.	6.P	.S 3205	- Lubricating oil supply, modification	W-400/016	D13
PES	.	R	.	- Modification to delivery valve	W-400/040	H17
PES	.	R	.	* Instructions	W-400/050	A01
PES	.	R	.	- Complaints about constant-pressure valves (GDV)	W-400/058	D11
PES	.	R	.	- Check on projection of stay bolts at assembly unions	W-400/051	F06
PES	.	R	.	- New control rod and modified installation sequence for RE positioner with "high oil level"	W-400/055	A01
PES	.	R	.	- Cylindrical roller bearing, drive end	W-400/055	E14

TESTING

		- Extension of test specification sheet	W-400/051	N03
O	402 698 033.	- Modified delivery setting	W-400/055	F28
P	. /10. .	* Instructions	W-400/047	A01
PE	. . .	- Start-of-delivery adjustment on IP test bench with light-signal generator	W-400/016	L23
PE	. . .	- Service procedure for assembly - pump combinations	W-400/016	L12
PE	. .A .	* Instructions	W-410/300	A01
PE	. .A .	- Prestroke and start-of-delivery adjustment	W-400/040	G09
PE	. .A .	- Additional test spec. for calibrating nozzle-holder assembly combinations	W-400/016	L10
PE	. .H .	* Instructions	W-400/054	A01
PE	. .H .	- Constant-vacuum valve (GDV), testing and description of operation	W-400/051	J06
PE	. .H .	- EDC in-line pumps with RE positioner	W-400/055	F05
PE	. .H .	- Testing and adjustment with engine overflow valve	W-400/051	G13
PE	. .H .	- Snubber valve (RDV), assembly instructions and fault recognition	W-400/051	K06
PE	. .M .	- EDC in-line pumps with RE positioner	W-400/055	F05
PE	. .M .	- Prestroke and start-of-delivery adjustment	W-400/040	G09
PE	. .M .	- Pre-stroke/start of delivery setting SIZE M/RSF III	W-400/055	F15
PE	. .MW .	* Instructions, series S 1000, S 1500	W-400/009	B01
PE	. .MW .	* Instructions, series S1	W-400/009	A01
PE	. .MW .	- Prestroke and start-of-delivery adjustment	W-400/040	G09
PE	. .P .	* Instructions	W-410/300	A01
PE	. .P .	- with EDC positioner RE ... Voltmeter	W-400/051	M15
PE	. .P .	- EDC in-line pumps with RE positioner	W-400/055	F05
PE	. .P .	- Constant-vacuum valve (GDV), testing and description of operation	W-400/051	J06
PE	. .P .	- KHD power-output variants, eng. BF..M 716	# W-400/003	D19
PE	. .P .	- Contact problems with positioner connector	W-400/040	E23
PE	. .P .	- Contact problems in RE-positioner	W-400/040	G19
PE	. .P .	- Unstable idle on comm. veh. with EDC	W-400/040	G28
PE	. .P .	- Engine vibration with commercial vehicles	W-400/016	E17
PE	. .P .	- New pump-and-barrel assembly	W-400/016	G26

PE	.	.P	.	- Instructions for pumps with start-of-delivery blocking flange	W-400/039	A01
PE	.	.P	.	- Testing of P-pumps with piston diameter 12.0 mm and more	W-400/016	J17
PE	.	.P	.	- Testing and adjustment with engine overflow valve	W-400/051	G13
PE	.	.P	.	- Snubber valve (RDV), assembly instructions and fault recognition	W-400/051	K06
PE	.	.P	.	- Scania torque-control pressure valve adjustment	W-400/004	H06
PE	.	.P	.	- Scania power variant, quantity setting	W-400/035	A01
PE	.	.P	.	- Scania prestroke adjustment S 7001, S 7002	W-400/005	J17
PE	.	.P	.	- Stiff control rod, prestroke adjustment	W-400/005	A02
PE	.	.P	.	- Compensation overflow valve for series P in-line pumps	W-400/016	K19
PE	.	.P	.	- Volvo/Scania with ROBO diaphragm	W-400/004	L17
PE	.	.P	.	- Prestroke and start-of-delivery adjustment	W-400/040	G09
PE	.	.P	.	- Additional test spec. for calibrating nozzle-holder assembly combinations	W-400/016	L10
PE	.	.P	.7100	- 0-402.746 ...with RQV-K and LDA Settings	W-400/051	B19
PE	.	.P	.8500	- Demands on P-8500 test equipment	W-400/051	B14
PE	.	8.P	.	- Modified delivery OM 442	W-400/008	D19
PE	.	8.P	.LS3707-1	- MB test specifications depending on engine number	W-400/004	D28
PE	.	8.P	.LS7816	- Reduction of full-load delivery	W-400/016	L15
PE	.	.R	.	- General testing instructions	W-400/051	D05
PE	.	.R	.	- EDC in-line pumps with RE positioner	W-400/055	F05
PE	.	.R	.	- Constant-vacuum valve (GDV), testing and description of operation	W-400/051	J06
PE	.	.R	.	- Testing and adjustment with engine overflow valve	W-400/051	G13
PE	.	.R	.	- Snubber valve (RDV), assembly instructions and fault recognition	W-400/051	K06
PES	.	.	.	- Start-of-delivery adjustment on IP test bench with light-signal generator	W-400/016	L23
PES	.	.	.	- Service procedure for assembly - pump combinations	W-400/016	L12
PES	.	.A	.	* Instructions	W-410/300	A01
PES	.	.A	.	- Prestroke and start-of-delivery adjustment	W-400/040	G09
PES	.	.A	.	- Additional test spec. for calibrating nozzle-holder assembly combinations	W-400/016	L10
PES	.	.A	.2000	- Cracked delivery valves on Ford 6.6l	W-400/016	G20

PES	.A	.RS2710	- MB-Trac, Unimog cold-start problems	W-400/008	E27
PES	.6.A	.	- John Deere, no-load misfiring	W-400/051	A23
PES	.H	.	* Instructions	W-400/054	A01
PES	.H	.	- EDC in-line pumps with RE positioner	W-400/055	F05
PES	.H	.	- Constant-vacuum valve (GDV), testing and description of operation	W-400/051	J06
PES	.H	.	- Testing and adjustment with engine overflow valve	W-400/051	G13
PES	.H	.	- Snubber valve (RDV), assembly instructions and fault recognition	W-400/051	K06
PES	.M	.	* Instructions	W-400/004	K27
PES	.M	.	- Encodable solenoid valve as anti-theft device for Mercedes Benz	W-400/051	G09
PES	.M	.	- With EDC positioner, Mercedes-Benz Engine sporadically cuts out	W-400/058	B03
PES	.M	.	- Prestroke measuring device, modification #	W-400/006	A01
PES	.M	.	- EDC in-line pumps with RE positioner	W-400/055	F05
PES	.M	.	- Prestroke and start-of-delivery adjustment	W-400/040	G09
PES	.MW	.	* Instructions, series S 1000, S 1500	W-400/009	B01
PES	.MW	.	* Instructions, series S1	W-400/009	A01
PES	.MW	.	- Prestroke and start-of-delivery adjustment	W-400/040	G09
PES	.5.MW	.	- MB-300 D, TD, engine vibration Adjustment instructions	W-400/004	L18
PES	.P	.	* Instructions	W-410/300	A01
PES	.P	.	- Instructions for pumps with start-of-delivery blocking flange	W-400/039	A01
PES	.P	.	- Misfiring in part-load range	W-400/051	A03
PES	.P	.	- EDC in-line pumps with RE positioner	W-400/055	F05
PES	.P	.	- with EDC positioner RE ... Adjustment instructions	W-400/051	B12
PES	.P	.	- Constant-vacuum valve (GDV), testing and description of operation	W-400/051	J06
PES	.P	.	- Contact problems with positioner connector	W-400/040	E23
PES	.P	.	- Mack: Test specifications with high consumption and/or poor performance	W-400/016	J19
PES	.P	.	- Engine vibration on commercial vehicles	W-400/016	E17
PES	.P	.	- New plunger-and-barrel assembly	W-400/016	G26
PES	.P	.	- Testing of P-pumps with piston diameter 12.0 mm and more	W-400/016	J17
PES	.P	.	- Testing and adjustment with engine overflow valve	W-400/051	G13
PES	.P	.	- Snubber valve (RDV), assembly instructions and fault recognition	W-400/051	K06
PES	.P	.	- Stiff control rod, prestroke	# W-400/006	J20



PES . .P .	- Prestroke and start-of-delivery adjustment	W-400/040	G09
PES . .P .	- Additional test spec. for calibrating nozzle-holder assembly combinations	W-400/016	L10
PES . .P .	- MAN vehicles, engine stoppage at idle	W-400/040	C22
PES . .P .7100	- O 402 746 .. with RQV-K and LDA Settings	W-400/051	B19
PES . .P .80..	- P-pump assemblies for Scania engines	W-400/051	M23
PES . .P .8500	- Demands on P-8500 test equipment	W-400/051	B14
PES . 6.P .	- Ford, poor performance with 136 kW engines, model 1991	W-400/051	A26
PES . 6.P .RS3145	- Assembly and adjustment instructions Ford 6.6L TC	W-400/016	C18
PESV. .P .	* Instructions	# W-400/006	H26
PESV. .P .	- Control-rod Linkage	W-400/004	L13
PESV. .P .	- Testing of P-pumps with piston diameter 12.0 mm and more	W-400/016	J17
PES . .R .	- EDC in-line pumps with RE positioner	W-400/055	F05
PES . .R .	- Constant-vacuum valve (GDV), testing and description of operation	W-400/051	J06
PES . .R .	- Testing and adjustment with engine overflow valve	W-400/051	G13
PES . .R .	- Snubber valve (RDV), assembly instructions and fault recognition	W-400/051	K06



DIESEL INJECTION SYSTEM WITH PUMP/NOZZLE UNIT (PDE)

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 Type designation                  Microfiche title                                  Microfiche Pos  
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DESCRIPTION

PDE/EDC	- Diesel injection system with pump/nozzel unit (PDE) System description	W-400/058	B12
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SOLENOID-CONTROLLED RADIAL-PISTON DISTRIBUTOR-TYPE INJECTION PUMP (VP44)

Type designation	Microfiche title	Microfiche	Pos
DESCRIPTION			
VR..M..	- Solenoid-controlled radial-piston distributor-type injection pumps System description	W-400/058	A20
REPAIRS			
VR.. ..	- 0 470 506 ... for Cummins ISB engines Offset Woodruff key in drive cone	W-400/058	F08
VE.. ..	- 0 470 000 ... Field warranty procedures for new products	W-400/058	E17
VR.. ..	- 0 470 500 ... Field warranty procedures for new products	W-400/058	E17

## GOVERNORS

Type designation	Microfiche title	Microfiche	Pos
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## GENERAL

	- Electronic diesel control EDC	W-400/008	E18
	- SIGMA-Fuel-Injection after-sales service	W-400/016	N01
	- Pretreatment of LDA diaphragm	W-400/040	C17
H . . .	- Hydr. governor O 427 .. customer service instructions and procurement of parts	W-400/016	F21
RSUV . . .	- Swivelling-lever adjustment screw modification	W-400/004	A21
RSV . . .	- Swivelling-lever adjustment screw modification	W-400/004	A21
O 402 046 836	- Link fork sticking	W-400/058	B07

## DESCRIPTION

PE . . H .	- New EDC system EDC 53.1 (MS 5)	W-400/051	G23
RQ . . .	- Start-of-delivery sensor system	W-400/008	D10
RQ . . .	- Two-stage LDA	W-400/003	M13
RQV . . .	- Start-of-delivery sensor system	W-400/008	D10
RQV . . .	- Two-stage LDA	W-400/003	M13
RSF . . .	- Start-of-delivery sensor system	W-400/008	D10
RSF . . .	- Functional description	W-400/003	N15
RSF . . .	- Increased idle speed, pneum./electronic	W-400/003	N03
RSF . . .	- Control-rod travel sensor with evaluation unit	W-400/005	H03
RSV . . .	- Start-of-delivery sensor system	W-400/008	D10
RSV . . .	- New torque-control capsule and sliding sleeve	W-400/004	A12
RSV . . .	- Stabilizer, hydraulic	# W-400/004	E14
RW . . MW .	- ALDA function	W-400/005	M20
RW . . MW .	- Design, function	W-400/005	M16

## REPAIRS

O 402 996 002	- Scania - comm. veh. with EDC	W-400/055	D10
O 402 946 024/030	- Scania industrial engine Absence of soldering at securing pin of LDA plate	W-400/058	E23
RE . . .	- General introduction of adjusting magnet with "Hi-ex bushing"	W-400/055	B17
RE . . .	* RE governor positioner, transportation safeguard	W-400/040	B27

RE	.	.	.22	* Instructions RE governor positioner on M-pumps	W-400/049	A01
RE	.	.	.22	- With EDC positioner, Mercedes-Benz Engine sporadically cuts out	W-400/058	B03
RE	.	.	.22	- With EDC positioner, Mercedes-Benz Engine spradically cuts out	W-400/058	D01
RE	.	.	.24/30	* RE governor positioner on P-pumps	W-400/019	A01
RE	.	.	.24/30	- Contact problems with positioner connector	W-400/040	E23
RE	.	.	.24/30	- Contact problems in RE-positioner	W-400/040	G19
RE	.	.	.30	- Idle instability	W-400/040	G28
RE	.	.	.30	- New version of Tampa seals for Mack E7 engines	W-400/051	C25
RE	.	.	.31	- General repair instructions	W-400/051	D05
RE	.	.	.33/36	* Instructions	W-400/053	A01
RQ	.	.	.	- 13 mm measuring element	W-400/008	E14
RQ	.	.	.	* Instructions	W-420/104	A01
RQ	.	.	.	* Instructions, horizontally-mounted LDA, governor	W-400/017	A01
RQ	.	.	.	* Instructions, two-stage LDA	W-400/017	A01
RQ	.	.	.	- Function and testing of TAS link	W-400/016	N03
RQ	.	.	.	- LDA conversion for RQ, RQV	W-400/055	E21
RQ	.	.	.	- Loose flyweight retaining pins	W-400/003	M18
RQ	.	.	.	- Sealing with plastic cap	W-400/008	F11
RQ	.	.	.	- Clamping fixture KDEP 2894, modification	W-400/003	M17
RQ	.	.	.	- MAN vehicles, conversion in the case of rough engine running	W-400/040	C19
RQ	.	.	.	- Cross-references between designations of experimental and released parts	W-400/051	A18
RQ	.	.AB	.	- MAN strap locking by means of split pin	W-400/008	A19
RQ	.	.P	.	- Control-rod pressure spring (modification)	W-400/005	A01
RQ	.	.PA	.	- Mercedes-Benz series 400 mit P-pump and two-stage LDA, poor performance	W-400/040	J03
RQ	.	.PA	.	- Mercedes-Benz OM 402 LA, engine vibration in lower speed range	W-400/055	A18
RQ	.	.PA	.	- Mercedes-Benz OM 442 LA, engine vibration in lower speed range	W-400/055	A11
RQ	.	.PA	.K	* Instructions	W-400/034	A01
RQU	.	.	.	* Instructions	# W-400/004	A25
RQU	.	.Z	.	- Link - modification instructions, old to new	W-400/003	L02
RQU	.	.Z	.	- Ball-bearing replacement	W-400/003	L01
RQUV	.	.	.	* Instructions	# W-400/004	A25
RQUV	.	.Z	.	- Link - modification instructions, old to new	W-400/003	L02
RQUV	.	.Z	.	- Ball-bearing replacement	W-400/003	L01

RQV	.	.	.	- 13 mm measuring element	W-400/008	E14
RQV	.	.	.	* Instructions, two-stage LDA	W-400/017	A01
RQV	.	.	.	* Instructions	W-420/104	A01
RQV	.	.	.	* Instructions, horizontally-mounted LDA, governor	W-400/017	A01
RQV	.	.	.	- LDA conversion for RQ, RQV	W-400/055	E21
RQV	.	.	.	- Loose flyweight retaining pins	W-400/003	M18
RQV	.	.	.	- Sealing with plastic cap	W-400/008	F11
RQV	.	.	.	- Clamping fixture KØEP-2894-- modification	W-400/003	M17
RQV	.	.	.	- MAN vehicles, conversion in the case of rough engine running	W-400/040	C19
RQV	.	.	.	- Engine vibration in part-load range and rough idle	W-400/058	D28
RQV	.	.	.	- Cross-references between designations of experimental and released parts	W-400/051	A18
RQV	.	.	.K	- Replacement of standard guide pin	W-400/040	H13
RQV	.	.	.K	- Wear assessment for drop-arm components	W-400/040	E16
RQV	.	.	.K	- Fulcrum lever, lever assembly contact	W-400/040	H26
RQV	.	.	.K	- New spring cotter pin in mechanical governor	W-400/040	C15
RQV	.	.	.K	- New version of Tampa seals for Mack E7 engines	W-400/051	C25
RQV	.	.A	.K	* Instructions	W-400/011	A01
RQV	.	.P	.	- Control-rod pressure spring (modification)	W-400/005	A01
RQV	.	.P	.	- Adjustment, control-rod intermediate piece	W-400/008	C12
RQV	.	.P	.	- MB - poor load take-up OM421, 422, 423	W-400/003	M09
RQV	.	.P	.	- Rupture of drive hub, modification	# W-400/004	C20
RQV	.	.P	.	- Scania with eddy-current brake, part-load bucking	W-400/007	K01
RQV	.	.PA	.	- Mercedes-Benz series 400 mit P-pump and two-stage LDA, poor performance	W-400/040	J03
RQV	.	.PA	.	- Mercedes-Benz OM 402 LA, engine vibration in lower speed range	W-400/055	A18
RQV	.	.PA	.	- Mercedes-Benz OM 442 LA, engine vibration in lower speed range	W-400/055	A11
RQV	.	.PA	.848-21	- Conversion of overloaded LDA diaphragms	W-400/040	D15
RQV	.	.P	.A	- Instructions for governors with shutoff stop (DTP)	W-400/039	A01
RQV	.	.P	.K	* Instructions	W-400/011	A01
RQV	.	.P	.K	* Instructions, LDA with lug cam (Mack)	W-400/017	A01
RQV	.	.P	.K	- IVECO cold-starting problems	W-400/040	H13
RQV	.	.P	.K	- Rupture of drive hub, modification	# W-400/004	C20
RSF	.	.	.	* Instructions	W-420/106	A01
RSUV	.	.	.	* Instructions	W-420/105	A01
RSV	.	.	.	* Instructions	W-420/105	A01

RSV . . .	- Flyweight wear on New Holland combine harvesters	W-400/055	D07
RSV . . .	- Assembly and test instructions for stabilizer	W-400/016	F23
RSV . .A .	- Cummins, worn governor flyweights	W-400/051	A21
RSV . .A .	- John Deere: problems with starting/engine hunting	W-400/040	E27
RSV . .A .	- Ford New Holland tractors, Unstable idle (conversion)	W-400/051	N18
RSV . .A .2123/1	- Service-part modification, for John Deere	W-400/040	A15
RSV . .M .	- Ford engine-speed sensor calibration	W-400/004	K22
RSV . .MW .	- Cummins, worn governor flyweights	W-400/051	A21
RSV . .MW .	- Control-rod sticking - starting solenoid	W-400/008	C11
RSV . .MW .	- Leakage at control-lever mount of governor cover	W-400/055	G02
RSV . .P .	- Cold-start locking device	W-400/004	A19
RSV . .P .	- PRG-element, reinforced	W-400/007	J23
RW . . . .	- ADA and ALDA	W-400/004	C01
RW . . . .	* Instructions	W-400/004	C19
RW . . . .	- Start-of-delivery sensor system	W-400/004	C12
RWV . . . .	* Instructions	W-400/004	C19
RZU . . . .	* Instructions	W-400/004	D01
NP-RAD . .K .	* Instructions	W-400/027	A01
NP-RBD . .K .	* Instructions	W-400/028	A01
NP-RLD . . . .	* Instructions	W-400/030	A01
NP-RFD . .K .	* Instructions	W-400/029	A01
NP-RLD . .K .	* Instructions	W-400/031	A01

#### TESTING

M . . . .	* Instructions (pneumatic governor)	W-400/301	A01
RE . .H .	- EDC in-line pumps with RE positioner	W-400/055	F05
RE . . . .	- with EDC positioner RE ... Adjustment instructions	W-400/051	B12
RE . . . .22	* Instructions RE governor positioner on M-pumps	W-400/049	A01
RE . . . .22	- With EDC positioner, Mercedes-Benz Engine sporadically cuts out	W-400/058	B03
RE . . . .22	- With EDC positioner, Mercedes-Benz Engine sporadically cuts out	W-400/058	D01
RE . . . .24/30	* RE governor positioner on P-pumps	W-400/019	A01
RE . . . .24/30	- Contact problems with positioner-connector	W-400/040	E23
RE . . . .24/30	- Contact problems in RE-positioner	W-400/040	G19
RE . . . .30	- Idle instability	W-400/040	G28
RE . . . .31	- General testing instructions	W-400/051	D05



RE	.	.	.33/36	* Instructions RE governor positioner on H-pumps	W-400/054	A01
RQ	.	.	.	- 13 mm measuring element	W-400/008	E14
RQ	.	.	.	* Instructions, horizontally-mounted LDA, governor	W-400/017	A01
RQ	.	.	.	* Instructions - with RQV parts, vertical LDA (old test-specification sheet type)	W-400/003	K08
RQ	.	.	.	* Instructions, two-stage LDA	W-400/017	A01
RQ	.	.	.	* Instructions	W-400/013	A01
RQ	.	.	.	- DAF LDA adjustment	W-400/004	F07
RQ	.	.	.	- Function and testing of TAS Link	W-400/016	N03
RQ	.	.	.	- RQ governors in injection-pump combinations for DAF, pinpointed governor-spring installation	W-400/016	L05
RQ	.	.AB	.	- DAF torque-control profile adjustment	W-400/008	D15
RQ	.	.PA	.	- Mercedes-Benz series 400 mit P-pump and two-stage LDA, poor performance	W-400/040	J03
RQ	.	.PA	.K	* Instructions	W-400/033	A01
RQU	.	.ZW	.	- Additional test instructions	W-400/003	K26
RQV	.	.	.	- 13-mm-measuring-element	W-400/008	E14
RQV	.	.	.	* Instructions (old test-specification sheet type)	W-400/003	L05
RQV	.	.	.	* Instructions - horizontally-mounted LDA, governor	W-400/017	A01
RQV	.	.	.	* Instructions - two-stage LDA	W-400/017	A01
RQV	.	.	.	* Instructions	W-400/013	A01
RQV	.	.	.	- Test specifications - angular specs. for governors	W-400/008	A28
RQV	.	.K	.	* Instructions	W-400/041	A01
RQV	.	.K	.	* Instructions - drive-end LDA	W-420/303	B01
RQV	.	.K	.	* Instructions - LDA with lug cam (Mack)	W-400/017	A01
RQV	.	.	.K	- O 402 746 .. with RQV-K and LDA Settings	W-400/051	B19
RQV	.	.	.K	- With temperature-dependent starting fuel delivery limitation (TAS)	W-400/055	G24
RQV	.	.	.K	- Fulcrum lever; lever assembly contact	W-400/040	H26
PQV	.	.	.K	- MAN vehicles, engine stoppage at idle	W-400/040	C22
RQV	.	.P	.	- Scania test specifications PAV 17678 and PAV 18021	W-400/007	J14
RQV	.	.P	.A	- Instructions for governors with shutoff stop (DTP)	W-400/039	A01
RQV	.	.PA	.	- Ford Cargo, engine cuts out at idle	W-400/051	A06
RQV	.	.PA	.	- Mercedes-Benz series 400 mit P-pump and two-stage LDA, poor performance	W-400/040	J03
RS	.	.	.	* Instructions	W-400/003	M21
RSF	.	.	.	* Instructions	W-400/036	A01
RSUV	.	.	.	* Instructions	W-420/310	A01
RSV	.	.	.	* Instructions	W-420/310	A01
RSV	.	.	.	* Instructions (old test-specification sheet type)	W-400/005	J05
RSV	.	.	.	- DAF LDA adjustment	W-400/004	F07
RSV	.	.	.	- Assembly and test instructions for stabilizer	W-400/016	F23

RSV . . .	- New fulcrum lever for RSV governors with LDA	W-400/040	C01
RSV . . .	- Test specifications - angular specs. for governor	W-400/008	A28
RSV . . .	- RSV governors on generator units	W-400/040	D27
RSV . .P .	Adjustment instructions		
	- Cold-start locking device	W-400/004	A19
RW . . .	- ADA, ALDA adjustment	W-400/005	E16
RW . . .	* Instructions	W-400/005	E03
RW . . .	* Instructions with FBG	W-400/009	C01
RW . . .	- LDA adjustment	W-400/005	F10
RW . . .	- Control-rod travel - dial-gauge assembly - 7-hole flange	W-400/005	E14
RWV . . .	* Instructions	W-400/005	E27
RWV . . .	- LDA adjustment	W-400/005	F10
RZU . . .	* Instructions	W-400/005	F14
NP-RAD . .K .	* Instructions	W-400/027	A01
NP-RBD . .K .	* Instructions	W-400/028	A01
NP-RLD . . . .	* Instructions	W-400/030	A01
NP-RFD . .K .	* Instructions	W-400/029	A01
NP-RLD . .K .	* Instructions	W-400/031	A01

## DISTRIBUTOR PUMPS

Type designation	Microfiche title	Microfiche	Pos
GENERAL			
	- Start-of-delivery settings (supplements)	W-400/051	C08
	- Distribution of IP test specifications	W-400/055	B25
	- Use of alternative fuels with fuel-injection components	W-400/051	K20
	- Utilisation of alternative fuels Product information	W-400/055	D18
	- Use of Fleet Guard filters for Bosch-equipped Cummins engines	W-400/051	L24
VA . . .	- Rust damage due to water in fuel	W-400/003	H15
VA . . .	- Trouble-shooting on the vehicle	W-400/007	A07
VA . .H .	- Hanomag removal and installation	# W-400/007	A10
VA . .H .	- Quiet-idle device, testing on the vehicle	W-400/003	B07
VA . .H .	- Pump/engine assignment variants	W-400/006	A08
VE . . .	- Laser marking of VE type designation	W-400/016	L21
VE . .E .	- BMW-EDC, control-unit combinations	W-400/016	A25
VE . .E .	- Electr. controlled diesel fuel-injection pump	W-400/008	D05
VE . .F .	- Shutoff problems	W-400/051	A01
VE . .F .	- Delivery-valve holder - tightening on the engine	# W-400/007	J08
VE . .F .	- Pump ventilation on the engine	# W-400/007	J09
VE . .F .	- Delivery-signal sensor and stepped boost-pressure dependent full-load stop	W-400/055	D21
VE . .F .	- Cross-reference: Bosch - Cummins/Case	W-400/016	D17
VE . .F .	- Plunger and collar seizure, deposits	W-400/003	H14
VE . .F .	- Service procedure Cummins VE-pumps	W-400/016	G14
VE . .F .	- Rust damage due to water in fuel	W-400/003	H15
VE . .F .	- Starting problems	# W-400/007	J06
VE . .F .	- Danger of accident, timing-device measuring tool	W-400/008	A04
NP	- ZEXEL notes on service-parts lists and test-specification sheets	W-400/051	C06

DESCRIPTION

VA	.	.H	.C	- Throttle-controlled starting quantity	W-400/003	D06
NP-VE	.	.	.ZEXEL	- Add-on modules, design and function	W-400/025	A01
VE	.	.F	.	- Design, function	# W-400/007	H20
VE	.	.F	.	- Idle spring attached to housing (LFG)	W-400/003	G23
VE	.	.F	.	- HBA, two-spring timing device, hydraulic KSB	W-400/003	G12
VE	.	.F	.	- Hydraulic KSB	W-400/007	G28
VE	.	.F	.-	- KSB, TLA, TAS (temperature-controlled)	# W-400/007	H28
VE	.	.F	.	- LDA	# W-400/007	H26
VE	.	.F	.	- Horizontally-mounted LDA	W-400/003	J10
VE	.	.F	.	- Power on/off damper MLD, FLD	W-400/008	F05
VE	.	.F	.	- Quiet-idle device	W-400/007	G26
VE	.	.F	.	- New KSB	W-400/016	A03
VE	.	.F	.	- Slave-piston timing device	W-400/016	H04
VE	.	.F	.	- Part-load regulator KSB	# W-400/007	H24
VE	.	.M	.	- Solenoid-controlled distributor injection pump with EDC system	W-400/058	D14
VR	.	.M	.	- Solenoid-controlled distributor injection pump with EDC system	W-400/058	D14

REPAIRS

VA	.	.H	.	- Distributor head - check valve	# W-400/007	A22
VA	.	.H	.A	* Instructions	W-400/007	B18
VA	.	.H	.C	* Instructions	W-400/007	F09
VA	.	.H	.C	* Instructions - 1st supplement	W-400/007	D22
VA	.	.H	.C	* Instructions - 2nd supplement	W-400/007	E02
VA	.	.H	.C	* Instructions - 3rd supplement	W-400/003	F21
VA	.	.H	.C	- Automatic starting device, service parts	W-400/003	D04
VA	.	.H	.CR199	- IHC - D310 timing-device modification	W-400/003	G08
VE	.	.	.	- Cummins shutoff devices	W-400/016	E04
VE	.	.	.	- Cummins seal ring for drive-shaft diameter 20 mm	W-400/016	J10
VE	.	.	.	- Cummins: Engine run-on	W-400/040	A21
VE	.	.	.	- Pressure springs in delivery-valve holder	W-400/055	F03
VE	.	.	.	- Cam plate - driver pin	W-400/055	E27
VE	.	.	.	- Pneumatic idle increase (PLA)	W-400/016	N16
VE	.	.	.	- Roller ring	W-400/055	E25

VE	.	.E	.	- Renewal of EDC injected-quantity adjuster	W-400/016	H20
VE	.	.E	.	- Electric shutoff device (ELAB) with check valve (RSV)	W-400/040	C28
VE	.	.F	.	- Drop in internal pressure with Volvo Penta marine engines	W-400/058	D06
VE	.	.F	.	- Alteration to roller ring replacement part group	W-400/051	L11
VE	.	.F	.	- Modification to VE pump by Cummins	W-400/040	A25
VE	.	.F	.	- Modification to intermediate lever on mechanical power on/off damper	W-400/016	H01
VE	.	.F	.	* Instructions with LDA	W-460/100	A01
VE	.	.F	.	* Instructions	W-400/045	A01
VE	.	.F	.	* Instructions MLD/FLD	W-400/014	A01
VE	.	.F	.	* Instructions KSB	W-400/014	C01
VE	.	.F	.	- Drive shaft, change bearing sleeve	W-400/016	B09
VE	.	.F	.	- Failures at roller ring KSB	W-400/051	L16
VE	.	.F	.	- Bypass pressure valve for Case/Cummins	W-400/040	B08
VE	.	.F	.	- Alteration to gasket at housing cover	W-400/016	G24
VE	.	.F	.	- DDS 1.1 Voltage supply for diagnosis	W-400/055	C25
VE	.	.F	.	- Diesel anti-theft system (VW)	W-400/056	A01
VE	.	.F	.	- Diesel anti-theft system (Fiat)	W-400/056	B01
VE	.	.F	.	- Diesel anti-theft system (Renault)	W-400/056	C01
VE	.	.F	.	- Diesel anti-theft system (Opel)	W-400/056	D01
VE	.	.F	.	- Diesel anti-theft system (Ford)	W-400/056	E01
VE	.	.F	.	- Diesel anti-theft system (Zexel)	W-400/056	F01
VE	.	.F	.	- Diesel anti-theft system (Peugeot/Citroen)	W-400/056	G01
VE	.	.F	.	- Diesel anti-theft system (DDS 1.1 Peugeot / Citroen)	W-400/056	H01
VE	.	.F	.	- DI engine, K-OT dimension	W-400/008	E03
VE	.	.F	.	- Introduction of phosphated yoke	W-400/051	M27
VE	.	.F	.	- Calibrated fittings	W-400/008	E13
VE	.	.F	.	- Anti-tamper safeguard (seal) on Cummins pumps	W-400/016	H26
VE	.	.F	.	- EP housing replacement - note version	W-400/003	H23
VE	.	.F	.	- Housing cover, replacing bushing	W-400/016	B04
VE	.	.F	.	- Unstable engine running with Cummins Series C engines	W-400/040	B01
VE	.	.F	.	- KOT dimension instructions	W-400/003	H27
VE	.	.F	.	- LDA housing repair	W-400/016	J01
VE	.	.F	.	- LDA stroke adjustment	W-400/008	A11
VE	.	.F	.	- with stepped LDA	W-400/055	F08
VE	.	.F	.	- New lubricant, control lever	W-400/008	E07

VE	.	F	.	- Slotted washer, support ring, modification	W-400/003	H16
VE	.	F	.	- Peugeot with EGR, repair and adjustment	W-400/040	A12
VE	.	F	.	- Starting lever, screw-plug modification	W-400/003	H25
VE	.	F	.	- Replacement of plunger return springs	W-400/051	M19
VE	.	F	.	- Leakage at timing-device cover	W-400/055	E12
VE	.	F	.	- Leakage/stiffness at control lever shaft (2 O-ring version)	W-400/058	F03
VE	.	F	.	- Control-lever lubrication	# W-400/007	J13
VE	.	F	.	- Full-load screw, housing cover, modification	W-400/003	H18
VE	.	F	.	- Volvo 760, rough idle with model year 1983-1984	W-400/040	A09
VE	.	F	.	- Lip-type oil seal, leaks due to cracks	W-400/003	H20
VE	.	F	.L116	- Volvo 760, part-load bucking	W-400/016	A23
VE	.	F	.L157	- Lancia, bucking whilst driving, conversion	W-400/008	F12
VE	.	F	.L216	- Engine hunting in part-load range	W-400/016	C04
VE	.	F	.R 94-2	- Steyr service parts, prestroke deviation	W-400/003	J03
VE	.	F	.R121	- BMW, bucking whilst driving - delivery-valve holder	W-400/008	A05
VE	.	F	.R132	- MAN reinforced service parts - identific.	W-400/003	J08
VE	.	F	.R149	- VW/Audi re-designation from .R 134-1	W-400/003	J09
VE	.	F	.R162-1	- Idle-speed drop, test specifications	W-400/007	J09
VE	.	F	.R162-2	- MS dimension adjustment change	W-400/008	D01
VE	.	F	.R162-4	- MS dimension adjustment change	W-400/008	D01
VE	.	F	.R170	- Distributor head with strainer in front of shutoff solenoid	W-400/016	H13
VE	.	F	.R206	- BMW, pay attention to FD prior to repair	W-400/008	D23
VE	.	F	.R221	- VW bucking whilst driving - part-load governor - modification	W-400/007	J13
VE	.	F	.R224	- VW bucking whilst driving - part-load governor - modification	W-400/007	J13
VE	.	F	.R288-1, -2, -3	- FORD Transit 2.5 L DI complaint regarding lack of performance	W-400/016	E08
VE	.	F	.R601,-1	- Information on repair and checking	W-400/055	G09
VE	.	F	.R622,-1	- Information on repair and checking	W-400/055	G09
VE-NP	.	.	.ZEXEL	* Instructions (Diesel KIKI)	W-400/024	A01

#### TESTING

VA	.	H	.	- Quiet-idle device	W-400/003	B07
VA	.	H	.B	* Instructions	W-400/003	C07
VA	.	H	.C	* Instructions	W-400/003	E28
VA	.	H	.C	- LDA	W-400/003	F17
VA	.	H	.C	- Quiet-idle device	W-400/003	F13
VA	.	H	.C	- Starting quantity	W-400/003	D16

VA	.	.H	.CR199	- IHC-D310 timing-device modification	W-400/003	G08
VE	.	.	.	- Cummins: Engine run-on	W-400/040	A21
VE	.	.	.	- Pneumatic idle increase (PLA)	W-400/016	N16
VE	.	.E	.	* Instructions	W-400/018	A01
VE	.	.E	.	* Instructions (DI)	W-400/044	A01
VE	.	.E	.	* Instruct. with HDK pickup (half differential inductive pickup)	W-400/048	A01
VE	.	.E	.	- Electric shutoff device (ELAB) with check valve (RSV)	W-400/040	C28
VE	.	.E	.	- Notes on test-specification sheet Excess-fuel/shutoff stop	W-400/055	D15
VE	.	.F	.	- EGR potentiometer adjustment	W-400/016	M11
VE	.	.F	.	- Alteration to setting of cold-start acceleration device	W-400/051	L18
VE	.	.F	.	- Modification to VE pump by Cummins	W-400/040	A25
VE	.	.F	.	- ARF delivery test	W-400/008	D17
VE	.	.F	.	* Instructions (DI)	W-400/044	A01
VE	.	.F	.	* Instructions MLD /FLD	W-400/014	B01
VE	.	.F	.	* Instructions KSB	W-400/014	C01
VE	.	.F	.	* Instructions without LDA	W-400/012	A01
VE	.	.F	.	* Instructions with LDA / HBA / LFG	W-400/043	A01
VE	.	.F	.	- DDS 1.1 Voltage supply for diagnosis	W-400/055	C25
VE	.	.F	.	- Diesel anti-theft system (VW)	W-400/056	A01
VE	.	.F	.	- Diesel anti-theft system (Fiat)	W-400/056	B01
VE	.	.F	.	- Diesel anti-theft system (Renault)	W-400/056	C01
VE	.	.F	.	- Diesel anti-theft system (Opel)	W-400/056	D01
VE	.	.F	.	- Diesel anti-theft system (Ford)	W-400/056	E01
VE	.	.F	.	- Diesel anti-theft system (Zexel)	W-400/056	F01
VE	.	.F	.	- Diesel anti-theft system (Peugeot/Citroen)	W-400/056	G01
VE	.	.F	.	- Diesel anti-theft system (DDS 1.1 Peugeot/Citroen)	W-400/056	H01
VE	.	.F	.	- High idle adjustment by Cummins dealers	W-400/040	B11
VE	.	.F	.	- Unstable engine running with Cummins Series C engines	W-400/040	B01
VE	.	.F	.	- LDA stroke, new tool	W-400/008	E09
VE	.	.F	.	- EDC distributor-type fuel-injection pump enhanced performance	W-400/055	F22
VE	.	.F	.	- Adjusting microswitch for EGR and glow plug system	W-400/016	M01
VE	.	.F	.	- New reduction sleeve test, KDEP 1140	W-400/003	H04
VE	.	.F	.	- Peugeot with EGR, repair and adjustment	W-400/040	A12
VE	.	.F	.	- Testing of Cummins/Case VE pumps	W-400/040	A18

VE	.	.F	.	- VOLVO Penta, improved idle	W-400/008	D08
VE	.	.F	.	- Supply pressure modification	W-400/008	A12
VE	.	.F	.R 82	- Opel LFB dispensed with	W-400/003	J01
VE	.	.F	.R 94-2	- Steyr test specifications - alteration	W-400/003	J03
VE	.	.F	.R149	- VW/Audi re-designation from .R134-1	W-400/003	J09
VE	.	.F	.R162-1	- Drop in idle speed - test specifications	W-400/007	J09
VE	.	.F	.R206	- BMW, modification with same part number	W-400/008	D23
VE	.	.F	.R288-1, -2, -3	- FORD Transit 2.5 L DI complaint regarding Lack of power	W-400/016	E08
VE	.	.F	.R299	- Adjustment instructions	W-400/016	C08
VE	.	.F	.R393	- No/delayed throttle take-up from low idle	W-400/016	M21
VE	.	.F	.R601,-1	- Information on repair and checking	W-400/055	G09
VE	.	.F	.R622,-1	- Information on repair and checking	W-400/055	G09
VE-NP	..		.ZEXEL	* Instructions (Diesel KIKI)	W-400/024	A01



SUPPLY PUMPS

Type designation	Microfiche title	Microfiche Pos
REPAIRS		
FP/ESB . 5.RC .	* Instructions	W-400/005 A14
FP/ESC . . .	* Instructions	W-400/005 A27
FP/K .22.MW .5	* Instructions	W-400/005 B09
FP/KG . . .	- Flange fractures	W-400/008 D03
FP/KG .24. .	- Repair instructions	W-400/051 L21
TESTING		
FP/ESB . 5.RC .	* Instructions	W-400/005 A14
FP/ESB . 5.RC .	- Test specifications	# W-400/005 A14
FP/ESC . . .	* Instructions	W-400/005 A27

NOZZLES/NOZZLE HOLDERS

Type designation	Microfiche title	Microfiche	Pos
<b>GENERAL</b>			
	- Nozzle-and-holder assembly, testing	W-400/016	D01
	- TDI nozzle-holder assembly, MB 100 D	W-400/008	E17
	- Ultrasonic cleaning prior to nozzle test	W-400/051	M13
	- Conversion of calibrating nozzle-holder assemblies	W-400/040	G12
	- Use of alternative fuels with fuel-injection components	W-400/051	K20
DN . . .	- BMW constant bucking whilst driving	W-400/008	A05
DN . . .	- Start, idle and driving knock	W-400/008	A01
<b>DESCRIPTION</b>			
KB . . .	- Two-spring nozzle-holder assembly	W-400/016	G06
<b>REPAIRS</b>			
DLLA. .P .	- Modification to nozzle inlet bore	W-400/051	K16
DHK . . .	* Instructions	W-400/010	A01
DNO . . .	- Nozzle-and-holder assembly, assessment	W-400/016	D01
K . . .	* Instructions	W-400/010	A01
KB . . .	- Modification of adjusting washers	W-400/008	A21
KBEL. . .	- Thrust pin and spring modification	W-400/005	A09
KCA . . .	- Nozzle-holder assembly with needle-movement sensor	W-400/016	B26
KD . . .	- Modification of adjusting washers	W-400/008	A21
KDEL. . .	- Thrust pin and spring modification	W-400/005	A09
KDEL.97.P .3	- Saab-Scania needle breakage	W-400/008	C23
NP-2 FH. . .	* Instructions, 2-spring nozzle-holder assembly	W-400/023	A01
2-F-DHK	- Nozzle-and-holder assembly with two compression springs Repair ban	W-400/058	D25
<b>TESTING</b>			
	- Discolored nozzles with Saab-Scania	W-400/016	D10

	* Characteristic chatter groups DL., DN., K..	W-400/010	E12
DHK . . .	* Instructions	W-400/010	A01
DL . . .	* Instructions	W-400/010	A01
DLLA. . .	- Hole-type nozzles with constricted holes	W-400/040	A01
DN . . .	* Instructions	W-400/010	A01
DNO . . .	- Nozzle-and-holder assembly, testing	W-400/016	D01
K . . .	* Instructions	W-400/010	A01
KB . . .	- Modification of adjusting washers	W-400/008	A21
KD . . .	- Modification of adjusting washers	W-400/008	A21
NP-2 FH. . .	* Instructions, 2-spring nozzle-holder assembly	W-400/023	A01

SINGLE-PLUNGER PUMPS

Type designation	Microfiche title	Microfiche	Pos
<b>GENERAL</b>			
PFR . .K .	- Nippon-Denso production	W-400/005	A13
<b>REPAIRS</b>			
PF .33. .	- Replacement of delivery-valve holders	W-400/055	B27
PF . .K .	- Control sleeves - installation positions #	W-400/006	C06
PFE . . .	- Service procedure for KHD engines	W-400/051	M06
PFM . . .	- Service procedure for KHD engines	W-400/051	M06
PFR . .K .	- Control sleeves - installation positions #	W-400/006	C06
PFR . .K .	- Control rod and roller tappet modifications	W-400/006	A01
NP-PFR . .KD .	* Instructions	W-400/022	A01
NP-PFR . .KX .	* Instructions	W-400/026	A01
NP-PFR . .MD .	* Instructions	W-400/022	A01
<b>TESTING</b>			
PFR .1 .K .	* Instructions	W-400/038	A01
NP-PFR . .KD .	* Instructions	W-400/022	A01
NP-PFR . .KX .	* Instructions	W-400/026	A01
NP-PFR . .MD .	* Instructions	W-400/022	A01



## KUGELFISCHER / SIGMA

Type designation	Microfiche title	Microfiche	Pos
<b>GENERAL</b>			
	- Service work on Kugelfischer EP - and-gasoline EP	# W-400/003	B09
<b>REPAIRS</b>			
CMS . . . .	- Torque control -- adjustment	# W-400/006	A23
CMS . . . .	* Instructions	# W-400/006	A03
CMX . . . .	- UNIC engine X 200 (Fiat 8220), KD service instructions	# W-400/006	B11
PLO . . . .	* Instructions (Schäfer-Mini)	# W-400/003	J01
PLO . .04 .	* Instructions (pneumatic control)	# W-400/003	K04
PSA . . . .	* Instructions	# W-400/006	K08
PSSE . . . .	* Instructions	# W-400/006	L13
RMS . . . .	- Variable-speed governor with LDA	# W-400/006	N09
RMS . . . .	* Instructions	# W-400/006	M22
S 3 . . . .	* Instructions (attachment to RM..)	# W-400/006	L21
<b>TESTING</b>			
CMS . . . .	- Variable-speed governor	# W-400/006	B07
CMS . . . .	* Instructions (minimum-maximum-speed governor)	# W-400/006	B01
PLO . . . .	* Instructions (Schäfer-Mini)	# W-400/003	J01
PLO . .04 .	* Instructions (pneumatic control)	# W-400/003	A01
PSA . . . .	* Instructions	# W-400/006	L02
PSSE . . . .	* Instructions	# W-400/006	L17
RMS . . . .	- Variable-speed governor with LDA	# W-400/006	N20
RMS . . . .	* Instructions	# W-400/006	N03
S 3 . . . .	* Instructions (attachment to RM..)	# W-400/006	M10

EP-GASOLINE

Type designation	Microfiche title	Microfiche	Pos
<b>GENERAL</b>			
PED . . .	- Service work on gasoline-EP	# W-400/003	B09
	- Porsche 911 exhaust-gas test and modifications	W-400/004	J17
PED . . .	- Porsche 911 - fuel-injection system	W-400/004	H28
PED . . .	- Porsche 911-USA model, modifications	W-400/004	J26
<b>REPAIRS</b>			
PED . . .	* Instructions	W-400/005	L16
PED . . . R3	- Modification to mixture-control unit	W-400/004	K04
PES . . KL .	* Instructions	W-400/005	L16
PLO . . .	* Instructions (Schäfer-Mini)	# W-400/003	J01
PLO . . 04 .	* Instructions (Schäfer, pneumatic control)	W-400/003	A01
<b>TESTING</b>			
	- Test specifications - changeover to ISO calibrating oil	W-400/003	J19
PED . . .	* Instructions	# W-400/003	F22
PED . . .	- Porsche 911 exhaust-gas test and modifications	W-400/004	J17
PED . . .	- Porsche 911 - fuel-injection system	W-400/004	H28
PED . . .	- Porsche 911 - USA model, modification	W-400/004	J26
PES . . KL .	* Instructions	# W-400/003	G04
PLO . . .	* Instructions (Schäfer-Mini)	# W-400/003	J01
PLO . . 04 .	- Instructions (Schäfer, pneumatic control)	W-400/003	A01

CROSS-REFERENCE

Info Number	Microfiche	Pos
BMP 001-067	W-400/006	C19
BMP 161-019	W-400/007	A10
BMP 161-024	W-400/007	A16
BMP 701-008	W-400/003	E17
BMP 701-008N1	W-400/003	F06
BMP 701-008N3	W-400/003	F16
I-400-1000	W-400/003	A01
I-400-1003	W-400/006	A01
I-400-1004	W-400/003	A04
I-400-1005	W-400/007	K12
I-400-104	W-400/006	J18
I-400-106	W-400/003	B05
I-400-107	W-400/006	B11
I-400-108	W-400/003	B08
I-400-109	W-400/003	B18
I-400-113	W-400/003	G22
I-400-116	W-400/008	F15
I-400-117	W-400/003	D11
I-400-119	W-400/003	B09
I-400-120	W-400/006	J19
I-400-121	W-400/006	J23
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